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Page 1

1636 #

1600

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/446,024A

DATE: 11/16/2001
TIME: 14:53:47

Input Set : **A:\es.txt**
Output Set: **N:\CRF3\11162001\I446024A.raw**

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 3 <110> APPLICANT: BESEME, Frederic
 4         BLOND, Jean-Luc
 5         BOUTON, Olivier
 6         MANDRAND, Bernard
 7         MALLET, Francois
 8         PERRON, Herve
10 <120> TITLE OF INVENTION: ENDOGENETIC RETROVIRAL SEQUENCES, ASSOCIATED WITH AUTOIMMUNE
DISEASES OR
11         WITH PREGNANCY DISORDERS
13 <130> FILE REFERENCE: 105045
15 <140> CURRENT APPLICATION NUMBER: US 09/446,024A
16 <141> CURRENT FILING DATE: 1999-12-16
18 <150> PRIOR APPLICATION NUMBER: PCT/FR98/01442
19 <151> PRIOR FILING DATE: 1998-07-06
21 <150> PRIOR APPLICATION NUMBER: FR 97/08815
22 <151> PRIOR FILING DATE: 1997-07-07
24 <160> NUMBER OF SEQ ID NOS: 53
26 <170> SOFTWARE: PatentIn version 3.1
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30 <212> TYPE: DNA
31 <213> ORGANISM: Human
33 <400> SEQUENCE: 1
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38 ctcttctggt ccatgtttct tacggctcga gctgagcttt tgctcaccgt ccaccactgc    180
40 tgtttgccac caccgcagac ctgccgctga ctcccatccc tctggatcct gcagggtgtc    240
42 cgctgtgctc ctgatccagc gaagcgccca ttgccgctcc caattgggct aaaggcttgc    300
44 cattgttcct gcacggctaa gtgcctgggt ttgttctaat tgagctgaac actagtcact    360
46 gggttccatg gttctcttct gtgacccacg gcttctaata gaactataac acttaccaca    420
48 tggcccaaga ttccattcct tggaatccgt gaggccaaga actccaggtc agagaatacg    480
50 aagcttgcca ccatcttgga agcggcctgc taccatcttg gaagtggttc accaccatct    540
52 tgggagctct gtgagcaagg accccccggt aacattttgg caaccacgaa cggacatcca    600
54 aagtgatggg aaacgttccc cgcaagacaa aaacgcccct aagacgtatt ctggaaaatt    660
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58 cctggcactc ctgagggaag tataaattat aacaccatct tacagctaga cctcttttgt    780
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62 tcacaattat gtaaaaagtg tgatttatgc cctacaggaa gccttcagag tctacctccc    900
64 tatcccagca tccccgactc cttccccact taataaggac ccccccttcaa cccaaatggt    960
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68 atgacccctc caagcagtgg gaggaagaga attcggccca gccagagtgc atgtgccttt   1080
70 ttctctccca gacttaaagc aaataaaaac agacttaggt aaattctcag ataaccctga   1140
72 tggctatatt ggtgttttac aagggttagg acaattcttt gatctgacat ggagagatat   1200
74 atatgtcact gctaaatcag acactaaccc caaatgagag aagtgccacc ataactgcag   1260
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81 <210> SEQ ID NO: 2
82 <211> LENGTH: 2938
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Input Set : A:\es.txt
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84 <213> ORGANISM: Human
86 <400> SEQUENCE: 2
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91 ttcttctgca gtgccgcctg gcactcctga gggaagtata aattataaca ccatcttaca   180
93 gctagacttc ttttgtagaa aaggcaaatg gagtgaagtg ccataagtac aaactttctt   240
95 ttcattaaga gacaactcac aattatgtaa aaagtgtgat ttatgcccta caggaagcct   300
97 tcagagtcta cctccctatc ccagcatccc cgactccttc cccaactaat aaggacccccc   360
99 cttcaaccca aatggtccaa aaggagatag acaaaagggg aaacagtgaa ccaaagagtg   420
101 ccaatattcc ccaattatga cccctcccaa gcagtgggag gaagagattc ggcccagcca   480
103 gagtgcatgt gcttttctt ctcccagact taaagcaaat aaaaacagac ttaggtaaat   540
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107 tgacatggag agatataatg tcactgctaa atcagacact aaccccaaat gagagaagtg   660
109 ccaccataac tgcagcctga gagtttggcg atctctggta tctcagtcag gtcaatgata   720
111 ggatgacaac agaggaaaga gatgatcccc acagccagca agcagttccc agtctasacc   780
113 ctcattgggg acacagaaat cagtaacatg ggagattggt gctgcagaca tttgctaact   840
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173 cctatactgg cttatcctca tcccaaaacc ctaaagcaac taaggggatt ccttggcgta  2640
175 ataggtttct gccgaaaatg gattcccagg tttggcgaaa tagccaggtc attaaataca  2700
177 ctaattaagg aaactcagaa agccaatacc catttagtaa gatggacaac tgaagtagaa  2760
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Input Set : **A:\es.txt**
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179 gtggctttcc aggccctaac ccaagcccca gtgttaagtt tgccaacagg gcaagacttt   2820
181 tcttcatatg tcacagaaaa aacaggaata gctctaggag tccttacaca gatccgaggg   2880
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187 <211> LENGTH: 1422
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189 <213> ORGANISM: Human
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194 <223> OTHER INFORMATION: n = any nucleotide
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208 ccttgtgcca tcaagccacc caagcactct taaatttcct cgccacctgt ggctacaagg    180
210 tttccaaaga gaagctcagc tctgctcaca gcaggttaaa tacttaggac taagattatc    240
212 caaaggcacc aaggccctca gtgaggaatg tatccagcct atactggctt atcctcatct    300
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226 gtttatgggt agtggtggca gtagcagttg tagtatctga agcagttaaa ataatacagg    720
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244 tccatgccca tgaggcaata tgcagagaaa gggaattcct aacttccgag ggaacaccta   1260
246 tcacacatca ggaagccatt aggagattat tactggcagt acagaaacct aaagaggtgg   1320
248 aagtcttaca ctgctggggt catcagaaag gaaagaaaag ggaaatagaa gggaattgcc   1380
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254 <211> LENGTH: 2006
255 <212> TYPE: DNA
256 <213> ORGANISM: Human
258 <220> FEATURE:
259 <221> NAME/KEY: misc_feature
260 <222> LOCATION: (305)..(305)
261 <223> OTHER INFORMATION: n = any nucleotide
264 <400> SEQUENCE: 4
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RAW SEQUENCE LISTING   DATE: 11/16/2001
PATENT APPLICATION: US/09/446,024A   TIME: 14:53:47

Input Set : A:\es.txt
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267 ctcagctagc agaactaata gccctcactt gggcactaga attaggagaa gaaaaaaggg   120
269 caaatatata tacagactct aaatatgctt acctagtcct ccatgcccat gcagcaatat   180
271 ggaaagaaag ggaattccta acttctgaga gaacacctat caaacatcag gaagccatta   240
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313 tttctcttta ctgttctttt accctctttc actctcactg caccccctcc atgccgctgt  1500
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323 tacttcaccc aaactggtat gtctgatggg ggtggagttc aagatcaggc aagagaaaaa  1800
325 catgtaaaag aagtaatctc ccaactcacc cgggtacatg gcacctctag ccctacaaag  1860
327 gactagatct ctcaaaacta catgaaaccc tccgtaccca tactcgcctg gtaagcctat  1920
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RAW SEQUENCE LISTING   DATE: 11/16/2001
PATENT APPLICATION: US/09/446,024A   TIME: 14:53:47

Input Set : A:\es.txt
Output Set: N:\CRF3\11162001\I446024A.raw

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362 ggtgtccgct gtgctcctga tccagcgagg cgcccattgc cgctcccaat tgggctaaag   180
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366 ntcactgggt tccatggttc tcttctgtga cccacggctt ctaatagaac tataacactt   300
368 accacatggc ccaagattcc attccttgga atccgtgagg gcaagaactc caggtcagag   360
370 aatacgaggc ttgccaccat cttggaagcg gcctgctacc atcttggaag tggttcacca   420
372 ccatcttggg agctctgtga gcaaggaccc cccggtaaca ttttggcaac cacgaacgga   480
374 catccaaagt gatacatcct gggaaggacc ctacccagtc attttatcta ccccaactgc   540
376 ggttaaagtg gctggagtgg agtcttggat acatcacact tgagtcaaat cctggatact   600
378 gccaaaggaa cctgaaaatc caggagacaa cgctagctat tcctgtgaac ctctagagga   660
380 tttgcgcctg ctcttcaaac aacaaccagg aggaaagtaa ctaaaatcat aaatccccat   720
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388 cttcactgcc cacacccata tgccccgcaa ctgctatcac tctgccactc tttgcatgca   960
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398 tactcgcctg gtaagcctat ttaataccac cctcactggg ctccatgagg tctcggccca  1260
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408 agtctgccta ccctcaggaa tatttttgt ctgtggtacc tcagcctatc gttgtttgaa   1560
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418 cgccgactcc ctggtcacct tgcaagatca acttaactcc ctagcagcag tagtccttca  1860
420 aaatcgaaga gctttagact tgctaaccgc tgaaagaggg ggaacctgtt tattttaagg  1920
422 ggaagaatgc tgttattatg ttaatcaa                                     1948
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426 <211> LENGTH: 1136
427 <212> TYPE: DNA
428 <213> ORGANISM: Human
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435 gcattggcgg tatcacaacc tctactcagt tctactacaa actatctcaa gaactaaatg   180
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441 cctgtttatt tttaggggaa gaatgctgtt attatgttaa tcaatccgga atcgtcactg   360
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447 cagctataat attgctactc ctctttggac cctgtatctt taacctcctt gttaactttg   540
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Use of n and/or Xaa has been detected in the Sequence Listing.
Review the Sequence Listing to insure a corresponding
explanation is presented in the <220> to <223> fields of
each sequence using n or Xaa.

VERIFICATION SUMMARY   DATE: 11/16/2001
PATENT APPLICATION: US/09/446,024A   TIME: 14:53:48

Input Set : A:\es.txt
Output Set: N:\CRF3\11162001\I446024A.raw

```
L:232  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:242  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:275  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:360  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:364  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:366  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:585  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:797  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:799  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:827  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:833  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:912  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:916  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:948  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:950  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:978  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:984  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:1032 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:1042 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:1048 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:1296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:1298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:1493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:1497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:1499 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:1699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:2232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:2236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:2238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
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